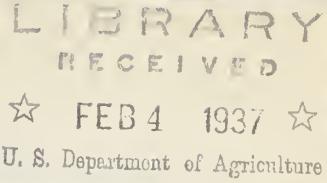


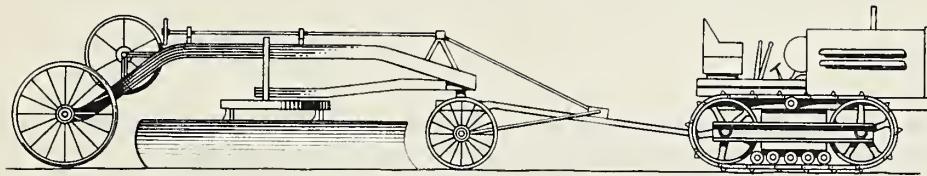
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CONSTRUCTION



HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D.C.

Vol. 3

February 6, 1937.

No. 3

MECHANICAL ITEMS DEVELOPED IN REGION SIX

The following items have been developed in the Region Six shop, and under the description of each item there is given a drawing number so that anyone interested may secure them from the Region Six office;

PORTABLE TRAIL COMPRESSOR:

Delivers 65 cu. ft. actual at 100# gage pressure at sea level, running 960 r.p.m.

Unit weighs 1300 lbs.

Can be disassembled into parts weighing not over 300 lbs.

Drawing number 34-175.

FIRE LINE BRUSH BUSTER:

A front end mounted V type fire line brush buster which can be attached to the standard connections of any bulldozer.

For "55" Cletrac - Drawing number 34-147

For "35" " - " " 34-169

" "40" " - " " 34-177

FIRE LINE TRENCHER:

A two-way wing plow mounted on wheels, pulled from rear drawbar of tractor, for heavy line trenching.

Drawing number 34-181.

PLANTING PLOW:

Features a combination of a breaking plow and trencher, both arranged on one plow beam, mounted on two-wheel carriage.

Has leaning wheels, leaning plows for side hill work, power lift, adjustable depth gages, and is intended for arrangement in gangs of three or four abreast.

Arrangement of one plow - Drawing number 34-186
Gang arrangement - " " 34-172

POWER TAKE-OFF FOR FIVE-TON

HOLT AND SIMILAR TRACTORS:

Heavy duty power take-off for driving light portable rock crushers and other equipment from the rear end of tractor.

Drawing number 34-104.

ROCK BIN:

Capacity 10 yards, or with side boards, 14 yards.

An elevating steel bin mounted on four wheels. Can be lowered to the truck frame for road travel, and elevated to desired height for receiving rock from crusher and loading into trucks.

Drawing number 34-130.

SPECIAL ARRANGEMENT OF
10 x 24 LIPPMANN CRUSHER:

Special arrangement using a 10-ton Holt motor, mounted lengthwise and driving through right angle bevel gear arrangement.

V belt connects motor to crusher for transmitting power.

Drawing number 34-125.

PORTABLE PILE DRIVER:

Pendulum type. Weight 15 tons, 3000 lb. hammer, 36 ft. leads for driving a maximum of 19 ft. bent centers.

To be mounted on dual tires at rear with fifth wheel under front

end of pile driver frame for connection to standard semi-trailer truck.

Drawing number 34-142.

STATIONARY HOIST AND DRAGLINE UNIT:

Double drum type mounted on steel frame. Approximate weight on steel frame 5 tons. Suitable for mounting on timber skids for logging or dragline work.

Power, 5-ton Holt motor, 3 speeds. Maximum line pull 30,000. Minimum line speed, 43 ft. per min. Maximum 910 ft. per min.

Drawing number 34-105.

TRUCK COVERS:

Light weight channel iron bows with longitudinal width strips. A strong, well braced light weight frame, giving added life to canvas.

For stake trucks - Drawing number 34-115.

For Dodge pickups - " " 34-183.

FRONT END ROCK RIPPER:

Features an arrangement of teeth spaced at proper intervals mounted in a special fabricated frame which can be attached to standard pin connections on a bulldozer frame. Picks up the rock and saves the dirt.

Drawing number 34-112.

TRUCK SWING BOOM CRANE:

A highly portable semi-heavy duty logging crane mounted on any light or medium size truck for roadside cleanup purposes and similar work. Capacity 2500 to 5000 lbs.

For 1½ ton truck - Drawing number 34-126.

TRAVELING SHOP CRANE:

3½ to 5 ton sizes. Plan follows general arrangement of many cranes now in production by manufacturers and features the double cross beam, which takes less room where ceiling space is limited than the single I-beam plan.

Drawing number 34-146.

HORSE TRAILER:

Two-wheel, one or two horse capacity, with specially designed frame and springs to give the lowest possible center of gravity and still maintain full road clearance. Power brake equipment. Weight 1250 lbs. Can be trailed, loaded, with standard pickup.

General arrangement - drawing number 34-156.
Under frame detail - " " 34-154.
Body detail - " " 34-155.

RADIO TRAILER:

Special light weight, streamlined house type of trailer with low center of gravity and standard axle clearance. Power brake equipped. Designed to accommodate short wave radio apparatus for use on project fires. By lengthening the body the design could be adapted for a maintenance trailer.

General arrangement - drawing number 34-176
Under frame detail - " " 34-166
Body detail - " " 34-174

DETACHABLE SNOW BLADE EXTENSION
FOR STANDARD BULLDOZER BLADES:

An extension on the top of standard bulldozer blade which increases blade capacity for snow work and develops correct curvature for free movement of snow.

One constructed and in use. Drawings will be completed and available within a short time.